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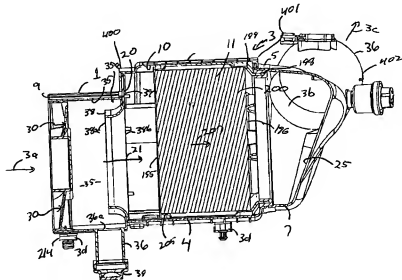
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(54) Title: PRECLEANER ARRANGEMENT FOR USE IN AIR FILTRATION, METHOD OF OPERATION OF PRECLEANER AND AIR CLEANER COMPRISING THE PRECLEANER ARRANGEMENT



(57) Abstract: A pre-cleaner (1) arrangement for use in separating a portion of entrained material in air from air entering an air cleaner, is provided. The pre-cleaner arrangement includes a vane structure positioned to direct air into a circular or cyclonic pattern, to facilitate material separation. The vane structure (30) includes one or more adjustable air deflection vanes. Each adjustable air deflection vane is constructed: to have a first position under no air flow or low air flow rate conditions; and, to deflect to import a more open, lower restriction, orientation under increased air flow rates. Preferred pre-cleaner arrangement constructions, assemblies utilizing the pre-cleaner arrangement and methods are described.